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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,264	07/18/2003	Chia-Hua Chou	81842.0016	3497

26021 7590 04/11/2007  
HOGAN & HARTSON L.L.P.  
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LOS ANGELES, CA 90067

EXAMINER
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HALEY, JOSEPH R

ART UNIT	PAPER NUMBER
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2627

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/11/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/623,264

Applicant(s)

CHOU ET AL.

Examiner

Joseph Haley

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____                                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____   | 6) <input type="checkbox"/> Other: ____                           |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 and 11-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagai et al. (US 5060208)

In regard to claim 1, Nagai et al. teaches an optical drive controller (fig. 2 elements 43, 37, 42, 28, 30 and 41. Elements 37, 42, 28, 30 and 41 act to control element 43) adapted to couple to and cause a laser diode driver (4) to provide signals to drive a laser diode (3), the optical drive controller capable of testing a channel between the optical drive controller and a laser diode driver and, in response to testing a channel between the optical drive controller and a laser diode driver, generating a set of calibration signals to program a drive characteristic associated with a laser diode driver to accommodate a characteristic of a channel between the optical drive controller and a laser diode driver (Fig. 2 element 42. see also column 6 lines 36-55) the set of calibration signals responsive to the timing characteristics tested by the optical drive controller (column 6 lines 36-55).

In regard to claim 2, Nagai et al. teaches the optical drive controller outputs one or more electrical test signals to a laser diode driver, through a channel between a laser diode driver and the optical drive controller (fig. 2 element 4A), the optical drive controller receiving one or more monitor signals generated in response to the one or more electrical test signals (fig. 2 element 28A), the one or more monitor signals received through a electrical channel between a laser diode driver and the optical drive

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controller the optical drive controller generating one or more calibration signals responsive to the monitor signals (column 6 lines 36-55).

In regard to claims 3, 7 and 11, Nagai et al. teaches the optical drive controller generates a control signal to set a laser diode driver in a calibration mode for a calibration process and generates a control signal to set a laser diode driver in a normal operation mode (column 3 lines 34-44. Nagai et al. teaches a test writing mode and a normal data writing mode. See also column 6 lines 9-18 where Nagai et al. teaches two separate clocks).

In regard to claim 4, Nagai et al. teaches the calibration signals adjust circuits within the optical drive controller (See also column 6 lines 9-18 where Nagai et al. teaches two separate clocks).

In regard to claim 5, Wang et al. teaches the calibration signals adjust circuits within a laser diode driver (See also column 6 lines 9-18 where Nagai et al. teaches two separate clocks. It is inherent when a new clock is set circuits will adjust).

In regard to claim 6, Wang et al. teaches the optical drive controller outputs a test signal to a laser diode driver, the optical drive controller receiving a monitor signal generated in response to the test signal, the optical drive controller outputting a second test signal, responsive to the monitor signal, for calibrating a laser diode driver in an iterative process (column 6 lines 36-55. see also column 6 lines 47-49 where Nagai et al. teaches two test patterns).

In regard to claims 8, 9 and 10 Nagai et al. teaches WSR channels (For the purpose of examination, and in view of the specification, the examiner considers WSR

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channels to be wires. There is no evidence in the application that a WSR channel is anything but a wire. The Examiner has searched for WSR and found only shift registers. Therefore WSR has been given no patentable weight).

In regard to claim 9, Nagai et al. teaches the optical drive controller generates a calibration signal in response to the monitor signal (fig. 3 element 51) and, responsive to the calibration signal, programs a drive characteristic of a laser diode driver to accommodate a characteristic of the signal channel between the optical drive controller and a laser diode driver determined by testing (column 6 lines 36-55).

In regard to claim 12, see claim 9 rejection above.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al. further considered with Official Notice.

In regard to claim 10, Wang et al. teaches all the elements of claim 10 except wherein the signal channel couples through a flexible cable.

The examiner takes Official Notice that using a flexible cable to connect a pickup head to the controller is well known. At the time of invention it would have been obvious to one of ordinary skill in the art couple the signal channel through the flexible cable. The rationale is as follows: At the time of invention it would have been obvious

to couple the signal channel through the flexible cable because the optical pick-up moves and if the cable is not flexible the connection would be broken.

***Response to Arguments***

Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Haley whose telephone number is 571-272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jrh



  
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